

ABSTRACT

The present invention has an object of providing a carbon nanotube dispersed composite material utilizing as much as possible excellent electric conductivity, heat conductive property and strength property owned by a carbon nanotube itself and taking advantage of features of ceramics having corrosion resistance and heat resistance such as zirconia and the like, and a method of producing the same; and long-chain carbon nanotubes (including also those obtained by previous discharge plasma treatment of only carbon nanotubes) are kneaded and dispersed by a ball mill, planet mill and the like together with calcinable ceramics and metal powder, further, the knead-dispersed material is treated by discharge plasma and this is integrated by sintering by discharge plasma, and carbon nanotubes can be thus dispersed in the form of network in the sintered body, and the electric conductivity property, heat conductive property and strength property of the carbon nanotube can be effectively used together with the properties of the ceramics and metal powder base material.